Product Information Sheet

Texel®

Envirotex Series by MP REMEDIA

DECONTAMINATING GEOTEXTILE

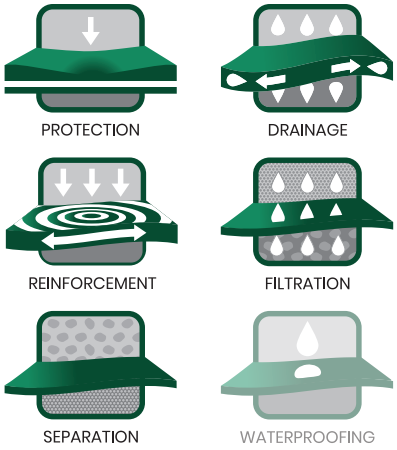
ADVANTAGES:

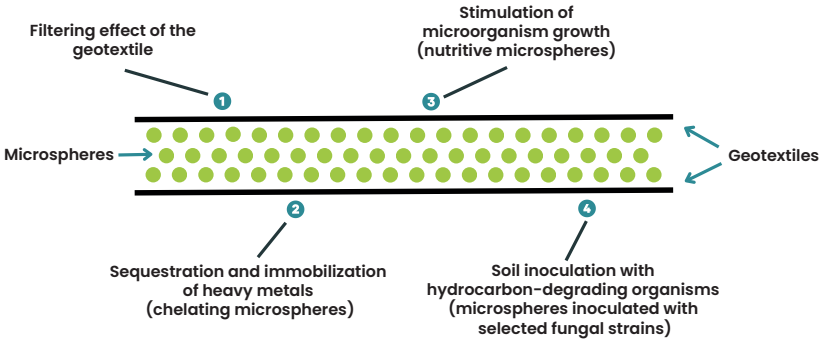
- On-site treatment of contaminated soil
- Effective and sustainable water filtration
- Use of natural active ingredients
- No extra work required

The Envirotex series provides an innovative, eco-friendly, and preventive solution to filter and effectively purify runoff water while protecting soils and **groundwater from hydrocarbon and heavy-metal contamination**.

Envirotex products are geocomposites made of geotextiles that incorporate microspheres containing active agents. They promote the effective degradation of hydrocarbons through **biostimulant nutrients** and **selected fungal species**, while ensuring the retention and mineralization of heavy metals using a**ctivated-carbon–based chelating agents**.

FUNCTIONS





SECTORS

- Municipal and Landscape Architecture
- Roads and Transportation
- Natural Resources and Energy
- Industrial and Waste Management

A solution designed for multiple uses

With its preventive and environmentally friendly properties, the Envirotex series is ideal for numerous applications, including :

GREEN INFRASTRUCTURES | PARKING AREAS | POLLUTED SITES AND SOILS | AIRPORT AREAS | PORT AREAS

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Heavy metal retention capacity

Heavy metals include a wide range of metallic pollutants commonly found in urban and industrial environments. Geotextiles for the Envirotex series protect soils and water by trapping heavy metals within the active "chelatex" material—made of activated carbon and mycelium—located at the core of the dual-layer geotextile.

Heavy metals sequestration performance (1)

Decontamination time for 1m² of parking area

Decontamination time for 1m² of polluted parking area*				
Arsenic	**Cadmium**	**Chrome**	**Copper**	**Nickel**
22′	25′	11′	24′	42′

* Time in minutes required to decontaminate 1 m² of parking surface. These results illustrate MP REMEDIA **chelation capacity and speed in absorbing immediate pollution loads.

** Chelation: the process of trapping heavy metals

Chelation capacity before saturation

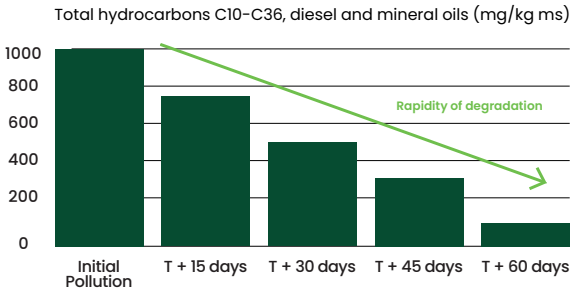
Assumption

Average release of heavy metals per year per standard parking space = **11 mg**

Average chelation capacity per year per standard peking space = **475 mg**

Bioremediation performance through hydrocarbon degradation (1)

Hydrocarbon degradation



(1) MP REMEDIA SSP range data

Hydrocarbon degradation capacity

A mixture of water, diesel, gasoline, engine oil, and bituminous sludge was prepared to simulate a spill. This aqueous mixture was poured through the geotextile. We measured hydrocarbon concentrations before and after passing through the geotextile and determined that the retention **capacity exceeded 99% after 60 days.**

Our range of solutions

	Envirotex Park	Envirotex SymbioPark	Envirotex SSP	Envirotex Solution
Geotextile	500 g	500 g	800 g	Custom-made
Seeds	80 g/m²	80 g/m²	125 g/m²	Custom-made
Fungi	No	Yes	Yes	Specific formulation
Activated Carbon	Yes	Yes	Yes	Specific formulation
Nutrients	Yes	Yes	Yes	Specific formulation

This table presents a summary of specifications. We invite you to consult updated data sheets and detailled technical specifications on our website at www.texel.ca.

WANT TO LEARN MORE?

Feel free to contact one of our representatives to discuss your project.

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Form A-6193 Effective 11/25

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